

Cortagine

Cat. No.:	HY-P2287	
Molecular Formula:	C ₁₉₂ H ₃₂₃ N ₅₅ O ₆₃ S	
Molecular Weight:	4442.06	
Target:	CRFR	(Glp)GPPISIDLSLELLREVLEMERAEQLAQQAANNRLLLDTA-NH ₂
Pathway:	GPCR/G Protein	
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year	

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (11.26 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.2251 mL	1.1256 mL	2.2512 mL
		5 mM		0.0450 mL	0.2251 mL	0.4502 mL
10 mM		0.0225 mL	0.1126 mL	0.2251 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (0.56 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.56 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cortagine is a specific corticotropin-releasing factor receptor subtype 1 (CRF1) agonist with an EC ₅₀ of 2.6 nM for rCRF1. Cortagine is an anxiolytic and antidepressive agent in the mouse model ^[1] .
IC₅₀ & Target	CRFR1
In Vitro	Cortagine inhibits rCRF1 (EC ₅₀ =0.18 nM) and mCRF _{2β} (EC ₅₀ =16 nM) in transfected HEK-293 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cortagine (30, 100, 300 ng; i.c.v.) significantly decreases the percent time spent in the open arms and number of open arm entries of the elevated plus-maze (EPM) test in nine-week-old male C57BL/6J mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hossein Tezval, et al. Cortagine, a Specific Agonist of Corticotropin-Releasing Factor Receptor Subtype 1, Is Anxiogenic and Antidepressive in the Mouse Model. Proc Natl Acad Sci U S A. 2004 Jun 22;101(25):9468-73.

Caution: Product has not been fully validated for medical applications. For research use only.

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